

Jiangming Yao

List of Publications by Year in descending order

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115
papers

3,224
citations

136950
32
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161849
54
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115
all docs

115
docs citations

115
times ranked

1142
citing authors

#	ARTICLE	IF	CITATIONS
1	New parametrization for the nuclear covariant energy density functional with a point-coupling interaction. Physical Review C, 2010, 82, .	2.9	463
2	Configuration mixing of angular-momentum-projected triaxial relativistic mean-field wave functions. Physical Review C, 2010, 81, .	2.9	163
3	Systematic study of nuclear matrix elements in neutrinoless double- β decay with a beyond-mean-field covariant density functional theory. Physical Review C, 2015, 91, .	2.9	121
4	Three-dimensional angular momentum projection in relativistic mean-field theory. Physical Review C, 2009, 79, .	2.9	91
5	Configuration mixing of angular-momentum-projected triaxial relativistic mean-field wave functions. II. Microscopic analysis of low-lying states in magnesium isotopes. Physical Review C, 2011, 83, .	2.9	91
6	Microscopic benchmark study of triaxiality in low-lying states of $\beta\beta$. Physical Review C, 2014, 89, .	2.9	85
7	Ab ³ Initio Treatment of Collective Correlations and the Neutrinoless Double Beta Decay of Ca48. Physical Review Letters, 2020, 124, 232501.	7.8	79
8	Covariant description of shape evolution and shape coexistence in neutron-rich nuclei at. Nuclear Physics A, 2012, 873, 1-16.	1.5	69
9	Beyond relativistic mean-field studies of low-lying states in neutron-deficient krypton isotopes. Physical Review C, 2013, 87, .	2.9	67
10	Search for multiple chiral doublets in rhodium isotopes. Physical Review C, 2008, 77, .	2.9	66
11	Energy density functional analysis of shape evolution in $\beta\beta$. Physical Review C, 2011, 84, .	2.9	66
12	Examining $\beta\beta$ bands. Physical Review C, 2009, 79, .	2.9	66
13	Nuclear matrix element of neutrinoless double- β decay: Relativity and short-range correlations. Physical Review C, 2017, 95, .	2.9	64
14	Systematics of low-lying states of even-even nuclei in the neutron-deficient lead region from a beyond-mean-field calculation. Physical Review C, 2013, 87, .	2.9	61
15	Time-odd triaxial relativistic mean field approach for nuclear magnetic moments. Physical Review C, 2006, 74, .	2.9	60
16	Simultaneous quadrupole and octupole shape phase transitions in Thorium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 866-869.	4.1	60
17	Relativistic description of nuclear matrix elements in neutrinoless double- β decay. Physical Review C, 2014, 90, .	2.9	60
18	Global study of beyond-mean-field correlation energies in covariant energy density functional theory using a collective Hamiltonian method. Physical Review C, 2015, 91, .	2.9	55

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19	Rapid structural change in low-lying states of neutron-rich Sr and Zr isotopes. Physical Review C, 2012, 85, .	2.9	53
20	Global dynamical correlation energies in covariant density functional theory: Cranking approximation. Frontiers of Physics, 2014, 9, 529-536.	5.0	53
21	Description of bands in Rh_{106} . Physical Review C, 2008, 77, .	2.9	48
22	Beyond relativistic mean-field approach for nuclear octupole excitations. Physical Review C, 2015, 92, .	2.9	48
23	Candidate multiple chiral doublets nucleus Rh_{106} in a triaxial relativistic mean field approach with time odd fields. Physical Review C, 2009, 79, .	2.9	47
24	Beyond-mean-field study of the possible "bubble" structure of ^{34}Si . Physical Review C, 2012, 86, .	2.9	45
25	Generator-coordinate reference states for spectra and decay in the in-medium similarity renormalization group. Physical Review C, 2018, 98, .	2.9	44
26	Does a proton "bubble" structure exist in the low-lying states of ^{34}Si ? Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 459-463.	4.1	42
27	Anatomy of molecular structures in ^{20}Ne . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 227-231.	4.1	40
28	Impurity effect of Lambda hyperon on collective excitations of nuclear core in Mg_{25} . Nuclear Physics A, 2011, 868-869, 12-24.	1.5	39
29	Enhanced collectivity in neutron-deficient Sn isotopes in energy functional based collective Hamiltonian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 470-473.	4.1	39
30	Relativistic description of second-order correction to nuclear magnetic moments with point-coupling residual interaction. Science China: Physics, Mechanics and Astronomy, 2011, 54, 204-209.	5.1	33
31	Spin Symmetry for Anti-Lambda Spectrum in Atomic Nucleus. Chinese Physics Letters, 2009, 26, 122102.	3.3	32
32	Quenching of nuclear matrix elements for decay by chiral two-body currents. Physical Review C, 2018, 98, .	2.9	32
33	One-Pion Exchange Current Corrections for Nuclear Magnetic Moments in Relativistic Mean Field Theory. Progress of Theoretical Physics, 2011, 125, 1185-1192.	2.0	30
34	Microscopic particle-rotor model for the low-lying spectrum of hypernuclei. Physical Review C, 2014, 90, .	2.9	30
35	Low-energy structure and anti-bubble effect of dynamical correlations in Ar . Physical Review C, 2014, 89, .	2.9	30
36	Microscopic study of low-lying spectra of hypernuclei based on a beyond-mean-field approach with a covariant energy density functional. Physical Review C, 2015, 91, .	2.9	30

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37	Searching for a $\bar{4}\bar{1}$ -linear-chain structure in excited states of O16 with covariant density functional theory. Physical Review C, 2014, 90, .	2.9	29
38	Polarization effect on the spin symmetry for anti-Lambda spectrum in 16 O + $\bar{\Lambda}$, system. Chinese Physics C, 2010, 34, 1425-1427.	3.7	28
39	Octupole correlations in low-lying states of Nd150 and Sm150 and their impact on neutrinoless double- β^2 decay. Physical Review C, 2016, 94, .	2.9	28
40	Beyond-mean-field study of elastic and inelastic electron scattering off nuclei. Physical Review C, 2015, 91, .	2.9	26
41	Triaxially deformed relativistic point-coupling model for $\bar{\Lambda}$. A quantitative analysis of the hyperon impurity effect on nuclear collective properties. Physical Review C, 2015, 91, .	2.9	26
42	Chiral geometry of higher excited bands in triaxial nuclei with particle-hole configuration. Physical Review C, 2010, 82, .	2.9	25
43	Efficient method for computing the Thouless-Valatin inertia parameters. Physical Review C, 2012, 86, .	2.9	24
44	<i>Ab initio</i> Calculation of the Contact Operator Contribution in the Standard Mechanism for Neutrinoless Double Beta Decay. Physical Review Letters, 2021, 127, 242502.	7.8	24
45	Multi-reference many-body perturbation theory for nuclei. European Physical Journal A, 2022, 58, 1.	2.5	24
46	Generator coordinate method for hypernuclear spectroscopy with a covariant density functional. Physical Review C, 2016, 93, .	2.9	23
47	Novel triaxial structure in low-lying states of neutron-rich nuclei around $A=100$. Physical Review C, 2016, 93, .		
48	Beyond-mean-field approaches for nuclear neutrinoless double beta decay in the standard mechanism. Progress in Particle and Nuclear Physics, 2022, 126, 103965.	14.4	22
49	Microscopic description of quantum shape fluctuation in C isotopes. Physical Review C, 2011, 84, .	2.9	21
50	Magnetic moments of ^{33}Mg in the time-odd relativistic mean field approach. Science in China Series C: Physics, Mechanics and Astronomy, 2009, 52, 1586-1592.	0.2	20
51	<i>Ab initio</i> benchmarks of neutrinoless double- β^2 decay in light nuclei with a chiral Hamiltonian. Physical Review C, 2021, 103, .	2.9	19
52	LAMBDA AND ANTI-LAMBDA HYPERNUCLEI IN RELATIVISTIC MEAN-FIELD THEORY. International Journal of Modern Physics E, 2010, 19, 2538-2545.	1.0	18
53	Tensor Coupling Effects on Spin Symmetry in the Anti-Lambda Spectrum of Hypernuclei. Chinese Physics Letters, 2011, 28, 092101.	3.3	18
54	Beyond-mean-field study of the hyperon impurity effect in hypernuclei with shape coexistence. Physical Review C, 2017, 95, .	2.9	18

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55	Coexistence of collective and noncollective structures in Sn118. Physical Review C, 2010, 81, .	2.9	17
56	Effect of pairing correlations on nuclear low-energy structure: BCS and general Bogoliubov transformation. Physical Review C, 2013, 88, .	2.9	17
57	Disappearance of nuclear deformation in hypernuclei: A perspective from a beyond-mean-field study. Physical Review C, 2018, 97, .	2.9	16
58	Odd-even parity splittings and octupole correlations in neutron-rich Ba isotopes. Physical Review C, 2018, 97, .	2.9	15
59	Effects of triaxial deformation and pairing correlation on the proton emitter Tm145. Physical Review C, 2008, 77, .	2.9	14
60	Shape coexistence and strongly coupled bands in Sb118. Physical Review C, 2010, 82, .	2.9	14
61	Anharmonicity of multi- α octupole-phonon excitations in Pb208: Analysis with multireference covariant density functional theory and subbarrier fusion of O16+Pb208. Physical Review C, 2016, 94, .	2.9	13
62	Low-energy hypernuclear spectra within a microscopic particle-rotor model with a relativistic point-coupling hyperon-nucleon interaction. Physical Review C, 2016, 93, .	2.9	12
63	Nuclear Structure from the In-Medium Similarity Renormalization Group. Journal of Physics: Conference Series, 2018, 1041, 012007.	0.4	12
64	Benchmark neutrinoless double- β decay matrix elements in a light nucleus. Physical Review C, 2020, 102, .	2.9	12
65	Binding energy differences of mirror nuclei in a time-odd triaxial relativistic mean field approach. Physical Review C, 2007, 76, .	2.9	11
66	Semimicroscopic modeling of heavy-ion fusion reactions with multireference covariant density functional theory. Physical Review C, 2015, 91, .	2.9	11
67	Beyond mean-field approach for pear-shaped hypernuclei. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	11
68	Collective excitations of $\hat{\lambda}$ hypernuclei. Nuclear Physics A, 2013, 914, 151-159.	1.5	10
69	Application of an efficient generator-coordinate subspace-selection algorithm to neutrinoless double- β^2 decay. Physical Review C, 2021, 104, .	2.9	10
70	Systematic study of the symmetry energy coefficient in finite nuclei. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015107.	3.6	8
71	Configuration mixing in low-lying spectra of carbon hypernuclei. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	8
72	Microscopic analysis of shape transition in neutron-deficient Yb isotopes. Physical Review C, 2018, 97, .	2.9	8

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73	<i>g</i> factors of nuclear low-lying states: A covariant description. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 198-203.	5.1	7
74	Structure of hypernuclei in relativistic approaches. <i>International Review of Nuclear Physics</i> , 2016, , 263-303.	1.0	7
75	SENSITIVITY OF THE NUCLEAR COLLECTIVITY TO THE PAIRING STRENGTH IN $\langle\sup>^{150}\text{Nd}$. <i>International Journal of Modern Physics E</i> , 2011, 20, 494-499.	1.0	6
76	Magnetic moments of $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"\text{ display="block">\langle\text{mml:mi}\rangle\hat{\mu}\langle/\text{mml:mi}\rangle\langle\text{mml:math}\rangle}$ hypernuclei within the time-odd triaxial relativistic mean-field approach. <i>Physical Review C</i> , 2013, 88, .	2.9	6
77	A systematic study of even-even nuclei from Ne to Ca in covariant density functional theory with triaxiality. <i>Progress of Theoretical and Experimental Physics</i> , 2014, 2014, 113D03-113D03.	6.6	6
78	Nuclear matrix elements for neutrinoless double-beta decay in covariant density functional theory. <i>International Journal of Modern Physics E</i> , 2017, 26, 1740020.	1.0	6
79	Transition from vibrational to rotational character in low-lying states of hypernuclei. <i>Physical Review C</i> , 2017, 96, .	2.9	6
80	Deformation constrained relativistic mean-field approach with fixed configuration and time-odd component. <i>Chinese Physics C</i> , 2009, 33, 98-100.	3.7	5
81	Quadrupole collectivity and shell closure in neutron-rich nuclei near $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"\text{ display="block">\langle\text{mml:mrow}\rangle\langle\text{mml:mi}\rangle\text{N}\langle/\text{mml:mi}\rangle\langle\text{mml:mo}\rangle=\langle/\text{mml:mo}\rangle\text{Zn}\langle\text{mml:math}\rangle}$. <i>Physical Review C</i> , 2019, 99, .	2.9	5
82	Structural evolution of the intruder band in ^{118}Sn . <i>Chinese Physics C</i> , 2009, 33, 838-841.	3.7	4
83	RECENT PROGRESS IN RELATIVISTIC MANY-BODY APPROACH. <i>International Journal of Modern Physics E</i> , 2006, 15, 1447-1464.	1.0	3
84	Exotic Magnetic Rotation in ^{22}F . <i>Chinese Physics Letters</i> , 2010, 27, 122101.	3.3	3
85	Microscopic description of nuclear structure around ^{80}Zr . <i>Physical Review C</i> , 2010, 82, .	2.9	3
86	Effects of Pairing Correlations on Formation of Proton Halo in 9 . <i>Chinese Physics Letters</i> , 2010, 27, 092101.	3.3	3
87	Superallowed Fermi transitions in RPA with a relativistic point-coupling energy functional. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1131-1136.	5.1	2
88	Systematic study of hypernuclear magnetic moments under a perturb treatment. <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	2
89	Neutrinoless double-beta decay in covariant density functional theory. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
90	Existence problem of proton semi-bubble structure in the $21 +$ state of ^{34}Si . <i>European Physical Journal A</i> , 2017, 53, 1.	2.5	2

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91	Relativistic mean-field and beyond approaches for deformed hypernuclei. AIP Conference Proceedings, 2019, ,.	0.4	2
92	Advances in modeling nuclear matrix elements of neutrinoless double beta decay. Science Bulletin, 2021, 66, 3-5.	9.0	2
93	Single-particle resonance states of ^{122}Zr in relativistic mean-field theory combined with real stabilization method. Chinese Physics C, 2009, 33, 101-104.	3.7	1
94	Covariant Density Functional Theory for Nuclear Structure and Application in Astrophysics. Nuclear Physics A, 2010, 834, 436c-439c.	1.5	1
95	LOW-LYING STATES IN ^{30}Mg : A BEYOND RELATIVISTIC MEAN-FIELD INVESTIGATION. International Journal of Modern Physics E, 2011, 20, 482-487.	1.0	1
96	IMPURITY EFFECT OF $\bar{\Lambda}$ HYPERON ON SHAPE-COEXISTENCE NUCLEUS ^{44}S IN THE ENERGY FUNCTIONAL BASED COLLECTIVE HAMILTONIAN. International Journal of Modern Physics E, 2012, 21, 1250024.	1.0	1
97	Mass and lifetime of unstable nuclei in covariant density functional theory. Physica Scripta, 2013, T154, 014010.	2.5	1
98	Present status of coupled-channels calculations for heavy-ion subbarrier fusion reactions. EPJ Web of Conferences, 2016, 117, 08003.	0.3	1
99	Beyond the relativistic mean-field approximation – collective correlations. International Review of Nuclear Physics, 2016, , 517-560.	1.0	1
100	MIRROR NUCLEI ^{12}B AND ^{12}N IN TIME-ODD TRIAXIAL RELATIVISTIC MEAN FIELD THEORY. International Journal of Modern Physics E, 2006, 15, 1513-1521.	1.0	0
101	Structure of nuclei far from the stability in relativistic approach. European Physical Journal: Special Topics, 2007, 150, 139-144.	2.6	0
102	Restoration of rotational symmetry in deformed relativistic mean-field theory. Chinese Physics C, 2009, 33, 21-23.	3.7	0
103	Towards Lambda-nucleon coupling constants in relativistic mean field theory. Chinese Physics C, 2009, 33, 64-66.	3.7	0
104	Covariant density functional theory with spectroscopic properties and a microscopic theory of quantum phase transitions in nuclei. Journal of Physics: Conference Series, 2011, 267, 012043.	0.4	0
105	A new covariant density functional with point-coupling and its application. Journal of Physics: Conference Series, 2011, 321, 012016.	0.4	0
106	Covariant Density Functional Theoryâ€”highlights on recent progress and applications. , 2011, ,.	0	
107	Energy density functional analysis of shape coexistence in ^{44}S . , 2012, ,.	0	
108	Microscopic description of quantum phase transitions in nuclei. , 2012, ,.	0	

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109	Covariant density functional theory and applications in nuclear physics and r-process. EPJ Web of Conferences, 2012, 38, 02001.	0.3	0
110	Energy density functional description of low-lying states in neutron-deficient Sn isotopes. Physica Scripta, 2013, T154, 014012.	2.5	0
111	Covariant density functional theory for exotic nuclei near the neutron drip-line. Journal of Physics: Conference Series, 2013, 413, 012005.	0.4	0
112	Recent developments in heavy-ion fusion reactions around the Coulomb barrier. EPJ Web of Conferences, 2016, 122, 07002.	0.3	0
113	LAMBDA AND ANTI-LAMBDA HYPERNUCLEI IN RELATIVISTIC MEAN-FIELD THEORY., 2009, ,.		0
114	COVARIANT DESCRIPTION OF THE LOW-LYING STATES IN NEUTRON-DEFICIENT Kr ISOTOPES., 2011, ,.		0
115	BEYOND THE RELATIVISTIC MEAN-FIELD APPROXIMATION FOR LOW-LYING STATES: LIMITATION OF CURRENT IMPLEMENTATION., 2013, ,.		0